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TITLE: Radiation, Scattering, and Guidance of Electromagnetic Fields by Arbitrarily Shaped Structures Embedded in Layered Dielectric Media

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We continued work on the problem of an arbitrarily shaped microstrip patch antenna excited by a waveguide mode through an aperture of arbitrary shape. Having implemented an efficient approach to the computation of the waveguide Green's functions, we turned attention to the part of the formulation that involves the microstrip patch in multilayered medium. We anticipate to finish this problem by midsummer (a paper has been submitted for presentation at the URSI Radio Science Meeting in Chicago). We also continued to make progress in the analysis of three-dimensional microstrip discontinuities and in the analysis of single and coupled integrated dielectric waveguides. The formulation of the second problem has now entered its final phase.